Michaelis

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[54]	METHODS FOR THE PREPARATION OF CONTROLLED GASTRIC RESIDENCE TIME MEDICAMENT FORMULATIONS		
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[56]	References Cited		
	U.S. PATENT DOCUMENTS		

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3,143,472	8/1964	Lappas 424/33
3,407,157	10/1968	Carstensen 424/33
3,442,698	5/1969	Dill 526/49 X
3,878,151	3/1975	Dach 526/49 X
3,959,540	5/1976	Leiberich 427/3 X

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## [57] ABSTRACT

Controlled gastric residence time medicament formulations, e.g., tablets and/or capsules, containing polymeric film coatings are exposed to a volatile amine, e.g., anhydrous ammonia, methyl amine, or ethyl amine, to provide improved medicament formulations, which by virtue of mechanical or surface effects including expansion or swelling of the coating in gastric fluids are capable of prolonged, e.g., up to twelve hours, residence in the gastric area.

8 Claims, No Drawings